

M 7.1, 70 km ENE of Namie, Japan

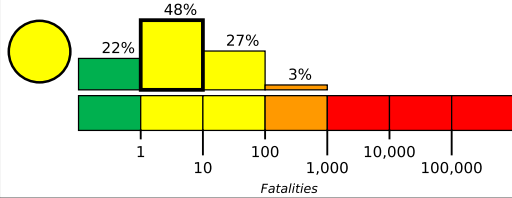
Origin Time: 2021-02-13 14:07:50 UTC (Sat 23:07:50 local)

Location: 37.7602° N 141.7196° E Depth: 51.9 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 4 weeks, 1 day after earthquake

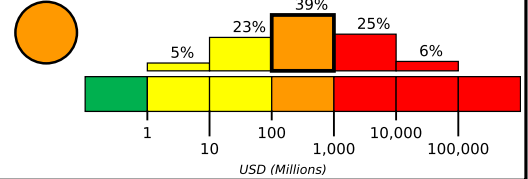
Estimated Fatalities



Orange alert for economic losses. Significant damage is likely and the disaster is potentially widespread. Estimated economic losses are less than 1% of GDP of Japan. Past events with this alert level have required a regional or national level response.

Yellow alert for shaking-related fatalities. Some casualties are possible.

Estimated Economic Losses

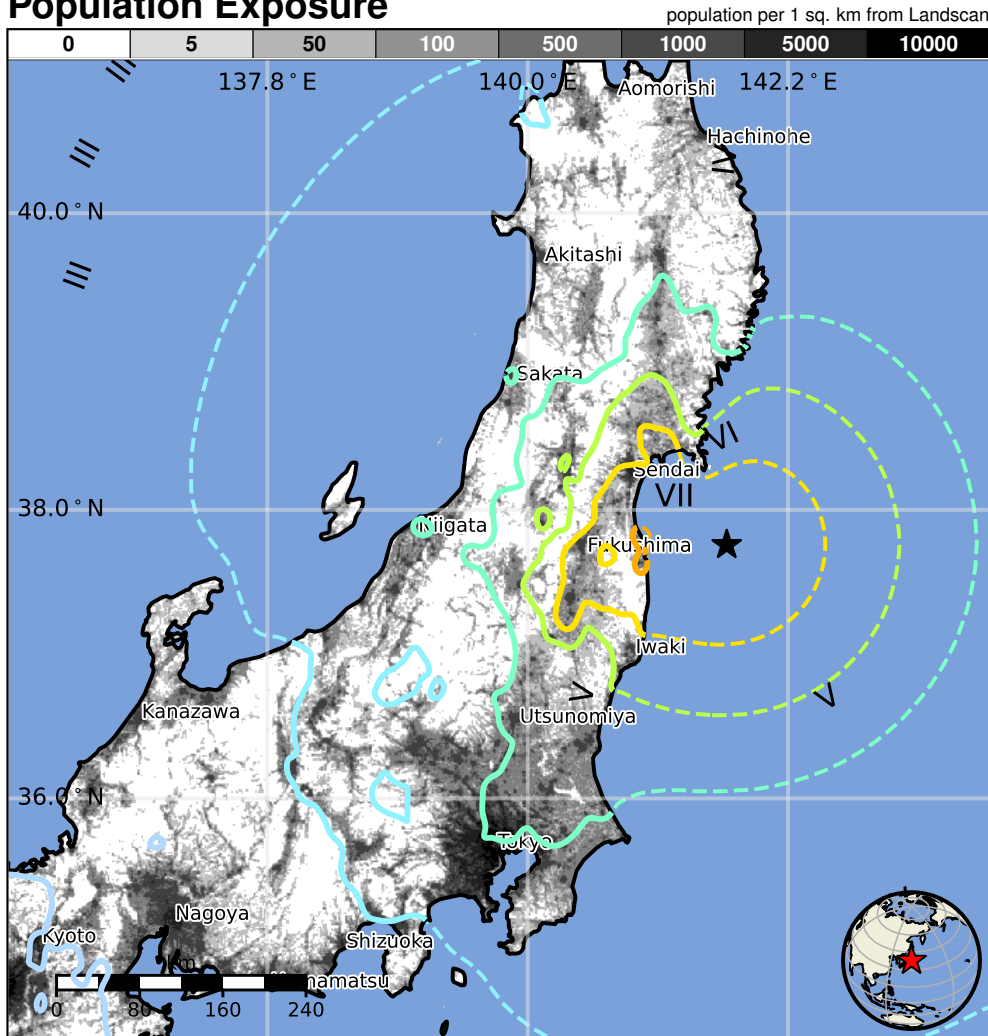


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	—*	28,501k*	35,883k*	16,220k	1,815k	2,317k	101k	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1978-06-12	57	7.6	VIII(1,304k)	22
2007-07-16	288	6.6	IX(6k)	9
1983-05-26	377	7.7	VII(174k)	104

Recent earthquakes in this area have caused secondary hazards such as tsunamis, landslides and fires that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Iwanuma	42k
VII	Namie	22k
VII	Watari	36k
VII	Koriyama	341k
VII	Marumori	17k
VII	Hobaramachi	25k
V	Saitama	1,193k
IV	Tokyo	8,337k
IV	Yokohama	3,574k
III	Nagoya	2,191k
III	Kyoto	1,460k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000dher#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000dher